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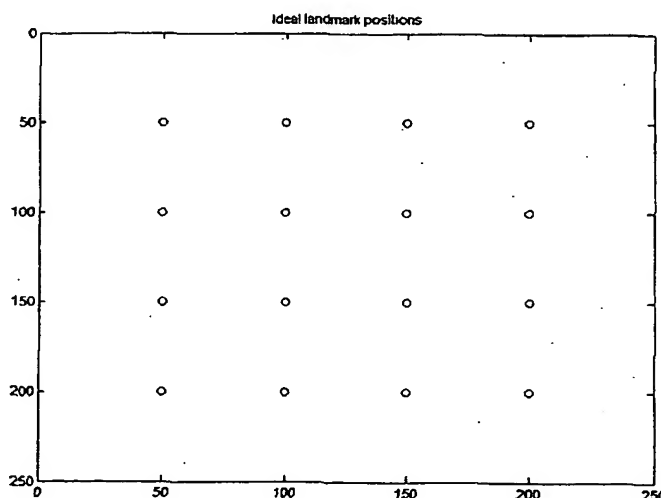
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(54) Title: METHOD AND COMPUTER PROGRAM FOR DIGITAL IMAGE PROCESSING FOR TWO-DIMENSIONAL
ELECTROPHORESIS

(57) **Abstract:** Method for processing digital image data for a two-dimensional array of sample substance spots and marker substance spots in an electrophoresis gel by using landmark substances having predefined properties, comprising the steps of: generating an ideal image represented by co-ordinate data corresponding to ideal positions of the marker substance spots in said array dependent on electrophoresis conditions; generating a marker image represented by co-ordinate data corresponding to detected positions of said marker substances spots in the array; determining a mathematical relation between the ideal image and the marker image, such that the co-ordinate data of said images are mapped onto each other; generating a sample image represented by a sample image data set corresponding to detected signal values in the gel; and normalising the sample image by transforming it dependent on said mathematical relation.

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